



Form PTO-1449 (modified)

Atty. Docket No.
56.0692Serial No.
10/824,079

List of Patents and Publications for Applicant's

Applicant
Willberg et al.

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:
April 14, 2004Group:
3672

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| U.S. Patent Documents See Page 1 | Foreign Patent Documents See Page 1 | Other Art See Page 1 |
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U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|------|------|-------|-----------|---------------------|
| | A1 | | | | | | |
| | A2 | | | | | | |
| | A3 | | | | | | |
| | A4 | | | | | | |
| | A5 | | | | | | |

Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|------|---------|-------|-----------|--------------------|
| | B1 | | | | | | |
| | B2 | | | | | | |
| | B3 | | | | | | |
| | B4 | | | | | | |
| | B5 | | | | | | |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
|-------------|-----------|--|
| | C1 | <i>Creating an Explosion: The theory and practice of detonation and solid chemical explosives</i> – J.A. Burgess and G. Hooper, <i>Physics in Technology</i> , November 1977, pp 257 – 265 |
| | C2 | <i>dBX™ Seismic Energy Source Technical Information Reference MSDS # 1316</i> – Dyno Nobel Inc. |
| | C3 | <i>VIBROGEL™ Seismic Energy Source Technical Information Reference MSDS # 1019</i> – Dyno Nobel Inc. |
| | C4 | <i>Towards the Miniaturization of Explosive Technology</i> - Proceedings of the 23 rd International Conference on Shock Waves, 2001 – D. Scott Stewart. |
| | C5 | <i>Underwater Explosions as Acoustic Sources</i> – D.E. Weston, <i>Proc. Phys. Soc.</i> , Vol.76, No. 2, pp 233 – 249. |
| | C6 | <i>Experimental Studies on Downhole Seismic Sources</i> – S.T. Chen, E.A. Eriksen and M. A. Miller, <i>Geophysics</i> , Vol. 55, No.12, pp 1645 – 1651, December, 1990 |












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| <input checked="" type="checkbox"/> | C7 | <i>Subsurface Imaging Using Reversed Vertical Seismic Profiling and Crosshole Tomographic Methods.</i> – S.T. Chen, L.J. Zimmerman and J.K. Tugnait, Geophysics, Vol. 55, No. 11, pp 1478 – 1487, November, 1990. |
| <input type="checkbox"/> | C8 | <i>Experimental Studies of Downhole Seismic Sources</i> – S.T. Chen and E.A. Eriksen, Geophysics, presented at the 59 th Ann. Internat. Mtg., Soc. Expl., Geophys., Expanded Abs. |
| <input type="checkbox"/> | C9 | SPE 68854 - <i>Field Test of a Novel Low Viscosity Fracturing Fluid in the Lost Hills Field, California</i> – S. Vasudevan, D.M. Willberg, J.A. Wise, T.L. Gorham, R.C. Dacar, P.F. Sullivan, C.L. Boney and F. Mueller |
| <input type="checkbox"/> | C10 | <i>Background for Hydraulic Fracturing Pressure Analysis Techniques</i> – S.N. Gulragani and K.G. Nolte, Appendix to Chapter 9: Reservoir Stimulation, 3 rd Edition, M.J. Economides and K.G. Nolte - p A9-1 to A9-16. |
| <input type="checkbox"/> | C11 | SPE 15214 – <i>Monitoring Hydraulic Fracture Stimulations with Long-Period Seismometers to Extract Induced Fracture Geometry</i> – F.J. Mauk and K.D. Mahrer |
| <input type="checkbox"/> | C12 | SPE18538 – <i>Uplifts and Tilts at Earth's Surface Induced by Pressure Transients from Hydraulic Fractures.</i> – Ian D. Palmer |
| <input type="checkbox"/> | C13 | SPE 21834 – <i>Microseismic Logging: A New Hydraulic Fracture Diagnostic Method.</i> – K.D. Mahrer. |
| <input type="checkbox"/> | C14 | SPE 27506 – <i>Data Gathering for a Comprehensive Hydraulic Fracturing Diagnostic Project: A case Study.</i> – L.S. Truby, R.G. Keck and R.J. Withers. |
| <input type="checkbox"/> | C15 | SPE 30507 – <i>Microseismic Mapping of Hydraulic Fractures Using Multi-Level Wireline Receivers.</i> – N.R. Warpinski, B.P. Engler, C.J. Young, R. Peterson, P.T. Branagan and J.E. Fix |
| <input type="checkbox"/> | C16 | SPE 30738 – <i>Hot Dry Rock: A Versatile Alternative Energy Technology</i> – D.V. Duchane |
| <input type="checkbox"/> | C17 | SPE 36450 – <i>Microseismic Monitoring of the B-Sand Hydraulic Fracture Experiment at the DOE/GRI Multi-Site Project.</i> – N.R. Warpinski, T.B. Wright, J.E. Uhl, P.M. Drozda, R.E. Peterson and P.T. Branagan |
| <input type="checkbox"/> | C18 | SPE 38573 – <i>Microseismic and Deformation Imaging of Hydraulic Fracture Growth and Geometry in the C Sand Interval, GRI/DOE M-Site Project.</i> – N.R. Warpinski, P.T. Branagan, R.E. Peterson, J.E. Fix, J.E. Uhl, B.P. Engler and R. Wilmer. |
| <input type="checkbox"/> | C19 | SPE 38574 – <i>Propagation of a Hydraulic Fracture into a Remote Observation Wellbore: Results of C-Sand Experimentation at the GRI/DOE M-Site Project.</i> – P.T. Branagan, R.E. Peterson, N.R. Warpinski, S.L. Wolhart and R.E. Hill |
| <input checked="" type="checkbox"/> | C20 | SPE 38576 – <i>A Systematic Study of Fracture Modeling and Mechanics Based on Data from GRI/DOE M-Site Project</i> – T.B. Wright and T.W. Green |

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|  | C21 | SPE 38577 – Cotton Valley Hydraulic Fracture Imaging Project. – Ray N. Walker, Jr. |
|  | C22 | SPE 40014 – Mapping Hydraulic Fracture Growth and Geometry Using Microseismic Events Detected by a Wireline Retrievable Accelerometer Array. – N.R. Warpinski, P.T. Branagan, R.E. Peterson, S.L. Wolhart and J.E. Uhl. |
|  | C23 | SPE 47315 – Monitoring and Management of Fractured Reservoirs Using Induced Microearthquake Activity. – A. Jupe, R. Jones, B.Dyer and S. Wilson |
|  | C24 | SPE49194 – Carthage Cotton Valley Fracture Imaging Project – Imaging Methodology and Implications. – R.N. Walker Jr., R.J. Zinno, J.B. Gibson, Ted Urbancic and Jim Rutledge |
|  | C25 | SPE 57593 – Microseismic Monitoring of the B-Sand Hydraulic-Fracture Experiment at the DOE/GRI Multisite Project. – N.R. Warpinski, T.B. Wright, J.E. Uhl, B.P. Engler, P.M. Drozda, R.E. Peterson and P.T. Branagan |
|  | C26 | SPE 63034 – East Texas Hydraulic Fracture Imaging Project: Measuring Hydraulic Fracture Growth of Conventional Sandfracs and Waterfracs. – Michael J. Mayerhofer, Ray N. Walker Jr., Ted Urbancic and James T. Rutledge |
|  | C27 | SPE 64434 – State-of-the-Art in Hydraulic Fracture Diagnostics. C.L. Cippola and C.A. Wright. |
|  | C28 | SPE 71649 – Analysis and Prediction of Microseismicity Induced by Hydraulic Fracturing. N.R. Warpinski, S.L. Wolhart and C.A. Wright |
|  | C29 | SPE 77442 – A Practical Guide to Hydraulic Fracture Diagnostic Technologies. – R. D. Barree, M.K. Fisher and R. A. Woodroof |
|  | C30 | SPE 77441 – Integrating Fracture Mapping Technologies to Optimize Stimulations in the Barnett Shale. – M.K. Fisher, C.A. Wright, B.M. Davidson, A.K. Goodwin, E.O. Fielder, W.S. Buckler and N.P. Steinsberger |
|  | C31 | SPE 77440 – Microseismic Imaging of Hydraulic Fracture Complexity in the Barnett Shale. S.C. Maxwell, T.I. Urbancic, N. Steinsberger and R. Zinno. |